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PATENT COOPERATION TRE





INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

| Applicant's or agent's file reference | FOR FURTHER A | CTION | See Form PCT/IPEA/416 | | | | |
|---|-------------------------------|-----------------------------------|---|--|--|--|--|
| FK003-PCT | | | | | | | |
| International application No. PCT/JP2003/012806 | International filing da | | Priority date (day/month/year) | | | | |
| | <u> </u> | 3 (06.10.2003) | 04 October 2002 (04.10.2002) | | | | |
| International Patent Classification (IPC) or n C23C 8/32, 8/02 | ational classification an | id IPC | | | | | |
| Applicant | ATD 33/A2 | TER INIC | | | | | |
| AIR WATER INC. | | | | | | | |
| This report is the international preling Authority under Article 35 and trans | | | s International Preliminary Examining 6. | | | | |
| 2. This REPORT consists of a total of | 3 sheets | , including this cover s | sheet. | | | | |
| 3. This report is also accompanied by ANNEXES, comprising: | | | | | | | |
| a. (sent to the applicant and to the International Bureau) a total of sheets, as follows: | | | | | | | |
| sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). | | | | | | | |
| sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. | | | | | | | |
| b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) , containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions). | | | | | | | |
| 4. This report contains indications rela | ting to the following ite | ms: | | | | | |
| Box No. I Basis of the re | Box No. I Basis of the report | | | | | | |
| Box No. II Priority | | | | | | | |
| Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability | | | | | | | |
| Box No. IV Lack of unity of invention | | | | | | | |
| Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | | | | | |
| Box No. VI Certain documents cited | | | | | | | |
| Box No. VII Certain defects in the international application | | | | | | | |
| Box No. VIII Certain observations on the international application | | | | | | | |
| Date of submission of the demand | | Date of completion of this report | | | | | |
| 21 April 2004 (21.04.2004) | | 15 De | 15 December 2004 (15.12.2004) | | | | |
| Name and mailing address of the IPEA/JP | | Authorized officer | | | | | |
| Facsimile No. | | Telephone No. | | | | | |

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

national application No.

PCT/JP2003/012806

| Box No | 0.1 | Basis of the report |
|---------------|--------------------------------|--|
| 1. With other | regard rwise in | to the language, this report is based on the international application in the language in which it was filed, unless dicated under this item. |
| | This which | report is based on translations from the original language into the following language, is language of a translation furnished for the purpose of: |
| | | international search (under Rules 12.3 and 23.1(b)) |
| ļ | | publication of the international application (under Rule 12.4) |
| l | | international preliminary examination (under Rules 55.2 and/or 55.3) |
| jurni | regard shed to are not o | to the elements of the international application, this report is based on (replacement sheets which have been the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" annexed to this report): ternational application as originally filed/furnished scription: |
| | pages* | received by this Authority on |
| | pages* | |
| | the dra | |
| | pages | • |
| | pages* | , as originally filed/furnished received by this Authority on |
| | pages* | |
| | a seque | ence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing. |
| 3. | The am | nendments have resulted in the cancellation of: |
| • | <u></u> t | he description, pages |
| | L t | he claims, Nos. |
| | t | he drawings, sheets/figs |
| | | he sequence listing (specify): |
| | | ny table(s) related to sequence listing (specify): |
| | (Rule 7 | port has been established as if (some of) the amendments annexed to this report and listed below had not been since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box 0.2(c)). The description, pages |
| * If item | 4 appli | es, some or all of those sheets may be marked "superseded." |

| Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | | | | |
|---|--------|------|-----|--|--|
| 1. Statement | | | | | |
| Novelty (N) | Claims | 1, 2 | YES | | |
| | Claims | | NO | | |
| Inventive step (IS) | Claims | 1, 2 | YES | | |
| | Claims | | МО | | |
| Industrial applicability (IA) | Claims | 1, 2 | YES | | |
| | Claims | | NO | | |

2. Citations and explanations (Rule 70.7)

Document 1: JP 58-5456 A (Nippon Piston Ring Co., Ltd.), January 12, 1983

Document 2: JP 62-278258 À (Chuo Hatsujo Kabushiki Kaisya), December 3, 1987

Document 3: JP 63-171855 A (Kobe Steel, Ltd.), July 15, 1988

Document 4: JP 11-200010 A (Kabushiki Kaisha Hirata), July 27, 1999

Document 5: EP 1193413 A1 (NSK Ltd.), April 3, 2002

None of the documents cited in the ISR describes the inventions relating to claims 1 and 2, nor are these obvious to a person skilled in the art.